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(54) **Conversion of direct process high-boiling residue to monosilanes**

(57) A process is disclosed for the production of monosilanes from a high-boiling residue resulting from the reaction of hydrogen chloride with silicon metalloid in a process known as the "direct process." Our process comprises contacting said high-boiling residue with hydrogen gas in the presence of a catalytic amount of alu-

minum trichloride effective to promote conversion of the high-boiling residue to monosilanes. At least a portion of the aluminum trichloride catalyst required for the process may be formed in situ during the direct process and isolation of said residue.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 11 4481

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 606 090 A (BRINSON, J.A. ET AL.) 25 February 1997 (1997-02-25) * the whole document *	1	C07F7/12 C01B33/107
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			C07F C01B
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>28 June 2002</b>	Examiner <b>Rinkel, L</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 11 4481

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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28-06-2002

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